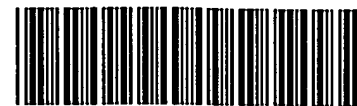


RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 09/869, 079 D
Source: JFW16
Date Processed by STIC: 11/28/2005

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IFW16

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DATE: 11/28/2005

PATENT APPLICATION: US/09/869,079D

TIME: 11:05:57

Input Set : A:\Jab1458a.app

Output Set : N:\CRF4\11282005\I869079D.raw

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3 <110> APPLICANT: MASURE, STEFAN
4   RICHARDSON, ALAN
6 <120> TITLE OF INVENTION: HUMAN AKT-3
8 <130> FILE REFERENCE: JAB-1458
10 <140> CURRENT APPLICATION NUMBER: 09/869,079D
11 <141> CURRENT FILING DATE: 2001-06-20
13 <150> PRIOR APPLICATION NUMBER: PCT/GB99/04311
14 <151> PRIOR FILING DATE: 1999-12-17
16 <160> NUMBER OF SEQ ID NOS: 16
18 <170> SOFTWARE: PatentIn Ver. 3.2
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 1547
22 <212> TYPE: DNA
23 <213> ORGANISM: Homo sapiens
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26 gggagtcata atgagcgatg ttaccattgt gaaagaaggt tgggttcaga agaggggaga 60
27 atatataaaa aactggaggc caagatactt ccttttgaag acagatggct cattcatagg 120
28 atataaagag aaacctcaag atgtggattt accttatccc ctcaacaact tttcagtggc 180
29 aaaatgccag ttaatgaaaa cagaacgacc aaagccaaac acatttataa tcagatgtct 240
30 ccagtggact actgttatag agagaacatt tcatgtagat actccagagg aaagggaga 300
31 atggacagaa gctatccagg ctgtagcaga cagactgcag aggcaagaag aggagagaat 360
32 gaattgtagt ccaacttcac aaattgataa tataggagag gaagagatgg atgcctctac 420
33 aacccatcat aaaagaaaga caatgaatga ttttgactat ttgaaactac taggtaaagg 480
34 cacttttggg aaagttattt tggttcgaga gaaggcaagt ggaaaatact atgctatgaa 540
35 gattctgaag aaagaagtca ttattgcaaa ggatgaagtg gcacacactc taactgaaag 600
36 cagagtatta aagaacacta gacatccctt tttaacatcc ttgaaatatt ccttccagac 660
37 aaaagaccgt ttgtgttttg tgatggaata tgtaaatggg ggcgagctgt ttttccattt 720
38 gtcgagagag cgggtgttct ctgaggaccg cacacgtttc tatggtgcag aaattgtctc 780
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41 cacagatgca gccaccatga agacattctg tggcactcca gaatatctgg caccagagg 960
42 gttagaagat aatgactatg gccgagcagt agactggtgg ggccatgggg ttgtcatgta 1020
43 tgaaatgatg tgtgggagg taccctttct caaccaggac catgagaaac tttttgaatt 1080
44 aatattaatg gaagacatta aatttctctg aacactctct tcagatgcaa aatcattgct 1140
45 ttcagggtct ttgataaagg atccaaataa acgccttggg ggaggaccag atgatgcaa 1200
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50 acgagaataa gtctctttca ttctgtact tcaactgtcat cttcaattta ttactgaaaa 1500
51 tgattcctgg acatcaccag tcttagctct tacacatagc aggggca 1547
54 <210> SEQ ID NO: 2
55 <211> LENGTH: 1437

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56 <212> TYPE: DNA

57 <213> ORGANISM: Homo sapiens

59 <400> SEQUENCE: 2

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60 atgagc gatg ttaccattgt gaaagaaggt tgggttcaga agaggggaga atatataaaa 60
61 aactggaggc caagatactt ctttttgaag acagatggct cattcatagg atataaagag 120
62 aaacctcaag atgtggattt accttatccc ctcaacaact tttcagtggc aaaatgccag 180
63 ttaatgaaaa cagaacgacc aaagccaaac acattttataa tcagatgtct ccagtggact 240
64 actgttatag agagaacatt tcatgtagat actccagagg aaaggggaaga atggacagaa 300
65 gctatccagg ctgtagcaga cagactgcag aggcaagaag aggagagaat gaattgtagt 360
66 ccaacttcac aaattgataa tataggagag gaagagatgg atgcctctac aacctcat 420
67 aaaagaaaga caatgaatga ttttgactat ttgaaactac taggtaaagg cacttttggg 480
68 aaagttattt tggttcgaga gaaggcaagt ggaaaatact atgctatgaa gattctgaag 540
69 aaagaagtca ttattgcaaa ggatgaagtg gcacacactc taactgaaag cagagtatta 600
70 aagaacacta gacatccctt tttaacatcc ttgaaatatt ccttccagac aaaagaccgt 660
71 ttgtgttttg tgatggaata tgtaaatggg ggcgagctgt ttttccattt gtcgagagag 720
72 cgggtgttct ctgaggaccg cacacgtttc tatggtgcag aaattgtctc tgccttggac 780
73 tatctacatt ccggaagat tgtgtaccgt gatctcaagt tggagaatct aatgctggac 840
74 aaagatggcc acataaaaat tacagatttt ggactttgca aagaagggat cacagatgca 900
75 gccaccatga agacattctg tggcactcca gaatatctgg caccagagggt gttagaagat 960
76 aatgactatg gccgagcagt agactggtgg ggcctagggg ttgtcatgta tgaaatgatg 1020
77 tgtgggagggt tacctttcta caaccaggac catgagaaac tttttgaatt aatattaatg 1080
78 gaagacatta aatttcctcg aacactctct tcagatgcaa aatcattgct ttcagggtct 1140
79 ttgataaagg atccaaataa acgccttggt ggaggaccag atgatgcaaa agaaattatg 1200
80 agacacagtt tcttctctgg agtaaaactg caagatgtat atgataaaaa gcttgtacct 1260
81 ccttttaaac ctcaagtaac atctgagaca gatactagat attttgatga agaatttaca 1320
82 gctcagacta ttacaataac accacctgaa aaatatgatg aggatggtat ggactgcatg 1380
83 gacaatgaga ggcggccgca tttccctcaa ttttctact ctgcaagtgg acgagaa 1437

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86 <210> SEQ ID NO: 3

87 <211> LENGTH: 479

88 <212> TYPE: PRT

89 <213> ORGANISM: Homo sapiens

91 <400> SEQUENCE: 3

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92 Met Ser Asp Val Thr Ile Val Lys Glu Gly Trp Val Gln Lys Arg Gly
93   1           5           10          15
95 Glu Tyr Ile Lys Asn Trp Arg Pro Arg Tyr Phe Leu Leu Lys Thr Asp
96           20           25           30
98 Gly Ser Phe Ile Gly Tyr Lys Glu Lys Pro Gln Asp Val Asp Leu Pro
99           35           40           45
101 Tyr Pro Leu Asn Asn Phe Ser Val Ala Lys Cys Gln Leu Met Lys Thr
102           50           55           60
104 Glu Arg Pro Lys Pro Asn Thr Phe Ile Ile Arg Cys Leu Gln Trp Thr
105           65           70           75           80
107 Thr Val Ile Glu Arg Thr Phe His Val Asp Thr Pro Glu Glu Arg Glu
108           85           90           95
110 Glu Trp Thr Glu Ala Ile Gln Ala Val Ala Asp Arg Leu Gln Arg Gln
111           100          105          110
113 Glu Glu Glu Arg Met Asn Cys Ser Pro Thr Ser Gln Ile Asp Asn Ile
114           115          120          125
116 Gly Glu Glu Glu Met Asp Ala Ser Thr Thr His His Lys Arg Lys Thr

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Output Set: N:\CRF4\11282005\I869079D.raw

```

117      130      135      140
119 Met Asn Asp Phe Asp Tyr Leu Lys Leu Leu Gly Lys Gly Thr Phe Gly
120 145      150      155      160
122 Lys Val Ile Leu Val Arg Glu Lys Ala Ser Gly Lys Tyr Tyr Ala Met
123      165      170      175
125 Lys Ile Leu Lys Lys Glu Val Ile Ile Ala Lys Asp Glu Val Ala His
126      180      185      190
128 Thr Leu Thr Glu Ser Arg Val Leu Lys Asn Thr Arg His Pro Phe Leu
129      195      200      205
131 Thr Ser Leu Lys Tyr Ser Phe Gln Thr Lys Asp Arg Leu Cys Phe Val
132      210      215      220
134 Met Glu Tyr Val Asn Gly Gly Glu Leu Phe Phe His Leu Ser Arg Glu
135 225      230      235      240
137 Arg Val Phe Ser Glu Asp Arg Thr Arg Phe Tyr Gly Ala Glu Ile Val
138      245      250      255
140 Ser Ala Leu Asp Tyr Leu His Ser Gly Lys Ile Val Tyr Arg Asp Leu
141      260      265      270
143 Lys Leu Glu Asn Leu Met Leu Asp Lys Asp Gly His Ile Lys Ile Thr
144      275      280      285
146 Asp Phe Gly Leu Cys Lys Glu Gly Ile Thr Asp Ala Ala Thr Met Lys
147      290      295      300
149 Thr Phe Cys Gly Thr Pro Glu Tyr Leu Ala Pro Glu Val Leu Glu Asp
150 305      310      315      320
152 Asn Asp Tyr Gly Arg Ala Val Asp Trp Trp Gly Leu Gly Val Val Met
153      325      330      335
155 Tyr Glu Met Met Cys Gly Arg Leu Pro Phe Tyr Asn Gln Asp His Glu
156      340      345      350
158 Lys Leu Phe Glu Leu Ile Leu Met Glu Asp Ile Lys Phe Pro Arg Thr
159      355      360      365
161 Leu Ser Ser Asp Ala Lys Ser Leu Leu Ser Gly Leu Leu Ile Lys Asp
162      370      375      380
164 Pro Asn Lys Arg Leu Gly Gly Gly Pro Asp Asp Ala Lys Glu Ile Met
165 385      390      395      400
167 Arg His Ser Phe Phe Ser Gly Val Asn Trp Gln Asp Val Tyr Asp Lys
168      405      410      415
170 Lys Leu Val Pro Pro Phe Lys Pro Gln Val Thr Ser Glu Thr Asp Thr
171      420      425      430
173 Arg Tyr Phe Asp Glu Glu Phe Thr Ala Gln Thr Ile Thr Ile Thr Pro
174      435      440      445
176 Pro Glu Lys Tyr Asp Glu Asp Gly Met Asp Cys Met Asp Asn Glu Arg
177      450      455      460
179 Arg Pro His Phe Pro Gln Phe Ser Tyr Ser Ala Ser Gly Arg Glu
180 465      470      475
183 <210> SEQ ID NO: 4
184 <211> LENGTH: 26
185 <212> TYPE: DNA
186 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic

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Output Set: N:\CRF4\11282005\I869079D.raw

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190     primer
192 <400> SEQUENCE: 4
193 accatttctc caagttgggg gctcag                26
196 <210> SEQ ID NO: 5
197 <211> LENGTH: 25
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
203     primer
205 <400> SEQUENCE: 5
206 gggagtcatc atgagcgatg ttacc                25
209 <210> SEQ ID NO: 6
210 <211> LENGTH: 26
211 <212> TYPE: DNA
212 <213> ORGANISM: Artificial Sequence
214 <220> FEATURE:
215 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
216     primer
218 <400> SEQUENCE: 6
219 cactccagaa tatctggcac cagagg                26
222 <210> SEQ ID NO: 7
223 <211> LENGTH: 25
224 <212> TYPE: DNA
225 <213> ORGANISM: Artificial Sequence
227 <220> FEATURE:
228 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
229     primer
231 <400> SEQUENCE: 7
232 ctatggccga gcagtagact ggtgg                25
235 <210> SEQ ID NO: 8
236 <211> LENGTH: 26
237 <212> TYPE: DNA
238 <213> ORGANISM: Artificial Sequence
240 <220> FEATURE:
241 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
242     primer
244 <400> SEQUENCE: 8
245 tgcccctgct atgtgtaaga gctagg                26
248 <210> SEQ ID NO: 9
249 <211> LENGTH: 26
250 <212> TYPE: DNA
251 <213> ORGANISM: Artificial Sequence
253 <220> FEATURE:
254 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
255     primer
257 <400> SEQUENCE: 9
258 aagagctagg actggtgatg tccagg                26
261 <210> SEQ ID NO: 10

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RAW SEQUENCE LISTING

DATE: 11/28/2005

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TIME: 11:05:57

Input Set : A:\Jab1458a.app

Output Set: N:\CRF4\11282005\I869079D.raw

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262 <211> LENGTH: 26
263 <212> TYPE: DNA
264 <213> ORGANISM: Artificial Sequence
266 <220> FEATURE:
267 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
268     primer
270 <400> SEQUENCE: 10
271 tgaaggtcgg agtcaacgga ttggt                26
274 <210> SEQ ID NO: 11
275 <211> LENGTH: 26
276 <212> TYPE: DNA
277 <213> ORGANISM: Artificial Sequence
279 <220> FEATURE:
280 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
281     primer
283 <400> SEQUENCE: 11
284 gggttgtaga ggcattcatc tcttcc                26
287 <210> SEQ ID NO: 12
288 <211> LENGTH: 28
289 <212> TYPE: PRT
290 <213> ORGANISM: Homo sapiens
292 <400> SEQUENCE: 12
293 Tyr Asp Glu Asp Gly Met Asp Cys Met Asp Asn Glu Arg Arg Pro His
294   1           5           10           15
296 Phe Pro Gln Phe Ser Tyr Ser Ala Ser Gly Arg Glu
297           20           25
300 <210> SEQ ID NO: 13
301 <211> LENGTH: 9
302 <212> TYPE: PRT
303 <213> ORGANISM: Artificial Sequence
305 <220> FEATURE:
306 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic (HA)
307     tag
309 <400> SEQUENCE: 13
310 Tyr Pro Tyr Asp Val Pro Asp Tyr Ala
311   1           5
314 <210> SEQ ID NO: 14
315 <211> LENGTH: 24
316 <212> TYPE: DNA
317 <213> ORGANISM: Artificial Sequence
319 <220> FEATURE:
320 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
321     primer
323 <400> SEQUENCE: 14
324 catgtgggcc atgaggtcca ccac                24
327 <210> SEQ ID NO: 15
328 <211> LENGTH: 480
329 <212> TYPE: PRT
330 <213> ORGANISM: Homo sapiens

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VERIFICATION SUMMARY

DATE: 11/28/2005

PATENT APPLICATION: US/09/869,079D

TIME: 11:05:58

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